

Chang-Ning Huang

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Education

Ph. D. **National Sun Yat-sen University**

Materials and Optoelectronic Science, 2007

Research Interests

Solid State Phase Transformation of Nanomaterials
Dynamic Synthesis of Metal and Oxide Nanomaterials
Microstructure of Group III Nitrides Semiconductor

Research Experiences

Assistant Professor **2012-present**
Southern Taiwan University of Science and Technology
Department of Chemical and Materials Engineering

Postdoctoral Researcher **2010-2012**
Paul-Drude-Institute for Solid State Electronics

Postdoctoral Researcher **2007-2009**
Center for Nanoscience and Nanotechnology, NSYSU

Selected Publications

Journal Articles

C.N. Huang, S.Y. Chen and P. Shen* (2007): "Condensation and decomposition of NiO-dissolved rutile nanospheres," J. Phys. Chem. C, 111, pp. 3322-3327.

C.N. Huang, S.Y. Chen, Y. Zheng and P. Shen* (2008): "Structure and phase behavior of gold nanocondensates: effects of laser ablation parameters and carbon catalysis," J. Phys. Chem. C, 112, pp. 14965-14972.

C.H. Lin, C.N. Huang, S.Y. Chen, Y. Zheng and P. Shen* (2009): "On the solute content, shape, defect microstructures and optical properties of Ti-doped γ -Al₂O₃ by pulsed laser ablation and/or electron irradiation." J. Phys. Chem. C, 113, pp. 19112-19118.

C.N. Huang, J.S. Bow, Y. Zheng, S.Y. Chen, N.J. Ho and P. Shen* (2010): "Nonstoichiometric titanium oxides via pulsed laser ablation in water." Nanoscale Res. Lett., 5, pp. 972-985.

C.N. Huang*, P.A. Shields, D.W.E. Allsopp and A. Trampert (2013): "Coalescence-induced planar defects in GaN layers grown on ordered arrays of nanorods by metal-organic vapor phase epitaxy." Philosophical Magazine 93, 3154.